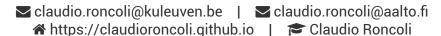
Claudio Roncoli

ASSOCIATE PROFESSOR · KU LEUVEN

Celestijnenlaan 300 - 3001 Leuven

VISITING PROFESSOR · AALTO UNIVERSITY





Research interests _____

- Modelling and control of traffic systems in presence of automated and connected vehicles
- Integration, management, and optimisation of emerging mobility systems and technologies
- Optimisation of Intelligent Transportation Systems for smart and sustainable mobility
- Traffic flow theory, modelling, and simulation

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Profe	SSIOI	าลเ p	ositia	ns.

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Associate Professor	11/2024 – current
Centre for Industrial Management / Traffic and Infrastructure, Faculty of Engineering Science, KU Leuven	Leuven, Belgium
Visiting Professor	10/2024 – current
DEPARTMENT OF BUILT ENVIRONMENT, SCHOOL OF ENGINEERING, AALTO UNIVERSITY	Espoo, Finland
Associate Professor	12/2022 - 10/2024
DEPARTMENT OF BUILT ENVIRONMENT, SCHOOL OF ENGINEERING, AALTO UNIVERSITY	Espoo, Finland
Visiting Researcher	10/2023 – 12/2023
School of Civil Engineering, University of Sydney	Sydney, Australia
Visiting Scholar	09/2023 – 10/2023
School of Civil Engineering, University of Queensland	Brisbane, Australia
Assistant Professor	10/2016 - 11/2022
DEPARTMENT OF BUILT ENVIRONMENT, SCHOOL OF ENGINEERING, AALTO UNIVERSITY	Espoo, Finland
Postdoctoral Research Associate	05/2013 - 09/2016
Dynamic Systems & Simulation Laboratory, Technical University of Crete	Chania, Greece
Visiting Student	07/2012
IMT School for Advanced Studies	Lucca, Italy
Visiting Research Assistant	01 - 07/2011 and 02 - 06/2012
CENTRE FOR TRANSPORT STUDIES, IMPERIAL COLLEGE LONDON	London, UK
Research Assistant/Associate	01/2007 – 04/2013
INDUSTRIAL AUTOMATION LAB / DELAB, UNIVERSITY OF GENOVA	Genova, Italy

Education _____

Doctoral degree in System monitoring and environmental risk management UNIVERSITY OF GENOVA	01/2010 – 04/2013 Genova, Italy
Master's degree in Computer Engineering - Production and Services Management UNIVERSITY OF GENOVA	09/2006 – 07/2009 Genova, Italy
Bachelor's degree in Computer Engineering UNIVERSITY OF GENOVA	09/2003 – 09/2006 Genova, Italy

Participation in Research Projects _____

ACUMEN - Ai-aided deCision tool for seamless mUltiModal nEtwork and traffic managemeNt	06/2023 - current
Funded by the European Commission, through the Horizon Europe programme Coordinator	
SMARTEDGE - Semantic Low-code Programming Tools for Edge Intelligence FUNDED BY THE EUROPEAN COMMISSION, THROUGH THE HORIZON EUROPE PROGRAMME Project Partner Lead	01/2023 - current
ALCOSTO - Adaptive and Learning COntrol strategies for Sustainable future Traffic Operations	09/2022 - current
Funded by Academy of Finland Principal Investigator	
AIForLEssAuto - Artificial Intelligence for Urban Low-Emission Autonomous	01/2022 - current
Traffic	
Funded by Academy of Finland Subproject Principal Investigator	
Finest Twins - Smart Cities Centre of Excellence FUNDED BY THE EUROPEAN COMMISSION, THROUGH THE HORIZON 2020 PROGRAMME Smart mobility stream leader	12/2019 – 11/2023
ULTRA - Ubiquitous Localization, communication, and sensing infrastrucTuRe for Autonomous systems	01/2020 - 12/2022
FUNDED BY ACADEMY OF FINLAND Subproject Principal Investigator	
Profi4 - Competitive funding to strengthen Universities' research profile FUNDED BY ACADEMY OF FINLAND Smart mobility theme Co-Principal Investigator	09/2018 – 08/2022
CMON - Connected Mobility Now Funded by Henry Ford Foundation Finland	06/2017 – 06/2022
Co-Principal Investigator	
WISE-ACT - Wider Impacts and Scenario Evaluation of Autonomous and	10/2019 – 03/2022
Connected Transport	
Funded by the European Commission, through a COST action Working Group leader	
FDMM - Future Digital Mobility Management FUNDED BY EIT URBAN MOBILITY Project partner Principal Investigator	01/2021 – 12/2021
TRA2020 - The Transport Research Arena 2020 in Helsinki FUNDED BY THE EUROPEAN COMMISSION, THROUGH THE HORIZON 2020 PROGRAMME Work-package leader	04/2018 – 10/2020
MULSIMCO - Multilevel Traffic Simulation with a Cognitive Basis Funded by Academy of Finland	05/2017 – 08/2018
Faculty Investigator SIMSIG - Traffic simulation for intelligent signal control FUNDED BY RSM LTD	06/2017 – 05/2018
Project leader	
TRAMAN21 - Traffic Management for the 21st Century FUNDED BY THE EUROPEAN COMMISSION, THROUGH AN ERC ADVANCED GRANT	05/2013 – 02/2018
Postdoctoral Research Associate	01/0007 01/00:-
TIP - Transport Integrated Platform FUNDED BY ENI R&M - SECONDARY LOGISTICS Research assistant / Research associate / Software designer and developer	01/2007 – 04/2013
researen assistant, researen associate, soltware designer and developer	

SECTRAM - Securité du transport de marchandises - Sicurezza nel trasporto merci (Safety for the transport of goods) FUNDED BY THE EUROPEAN COMMISSION UNDER ALCOTRA (2007-2013) Research assistant	04/2009 – 03/2012
DaGoT - European Reference Framework on Dangerous Goods Transport FUNDED BY THE EUROPEAN COMMISSION UNDER THE SIXTH FRAMEWORK PROGRAMME Research assistant	01/2007 – 02/2008
Teaching activities	
Director of the Master's programme in Spatial Planning and Transportation Engineering (SPT) AALTO UNIVERSITY, FINLAND	10/2021 - 09/2024
Deputy Director of the Master's programme in Spatial Planning and Transportation Engineering (SPT) AALTO UNIVERSITY, FINLAND	08/2019 – 09/2021
Responsible teacher and main instructor for the Transport Modelling course Part of the SPT Master's programme - Aalto University, Finland	09/2018 – 02/2024
Responsible teacher and main instructor for the Traffic Flow Theory course Part of the SPT Master's programme - Aalto University, Finland	10/2016 - 04/2024
Deputy responsible teacher and co-instructor for the Traffic Management course Part of the SPT Master's programme - Aalto University, Finland	10/2016 - 06/2024
Participation in Educational Projects	
ENACT - Education network for automated and connected transport for sustainable cities FUNDED BY FINNISH MINISTRY OF EDUCATION AND CULTURE Project Partner Principal Investigator	01/2021 - 07/2023
Project Partner Principal Investigator Boost I&E 2.0 - Boosting Innovation and Entrepreneurship Challenge Project 2021 FUNDED BY EIT URBAN MOBILITY KIC Activity Lead	01/2021 – 12/2021
Boost I&E - Boosting Innovation and Entrepreneurship Challenge Project FUNDED BY EIT URBAN MOBILITY KIC Activity Partner Principal Investigator	01/2020 – 12/2020

Editorial and organisational activities

COMMITTEE MEMBERSHIPS

- Member of the Standing Committee on Vehicle-Highway Automation (ACP30) for the Transportation Research Board (TRB) (2022 current)
- Member of the Technical Committee for the IFAC 7.4: Transportation systems (2017 current)
- Member of the Technical Committee for the IEEE Emerging Transportation Technology Testing (ET3) (2023 current)
- Representative of the university members in the Governing Board for the European Partnership on Connected, Cooperative & Automated Mobility CCAM Association (2024 current)
- Partner Representative of the General Assembly for the European Partnership on Connected, Cooperative & Automated Mobility CCAM Association (2021 2024)
- Vice-chair of the Programme Committee for the Transport Research Arena (TRA2020)
- Member of the Scientific Committee for the Symposia on Management of Future motorway and urban Traffic Systems (MFTS 2016 - 2024)

- Member of the Technical Program Committee for the IFAC Symposia on Control in Transportation Systems (CTS 2018 - 2024)
- Member of the Technical Program Committee for the IEEE International Conference on Intelligent Transportation Systems (ITSC 2017, 2020 - 2023)
- Member of the Scientific Committee and Permanent Representative for Aalto University for the European Association for Research in Transportation (hEART 2015 2024)
- Member of the Scientific Committee for the IEEE International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2021 2023)
- Member of the Scientific Committee for the EURO Working Group on Transportation Meetings (EWGT 2016, 2020)
- Member of the International Program Committee for the IEEE Intelligent Vehicles Symposia (IV 2018 2022)
- Member of the International Program Committee for the International Conferences on Vehicle Technology and Intelligent Transport Systems (VEHITS 2015 2019)
- Member of the Technical Program Committee for the International Conferences on Advances in Vehicular Systems, Technologies and Applications (VEHICULAR 2017 2019)
- Member of the Technical Program Committee for the IEEE International Conference on System of Systems (SoSE 2012)

EDITOR FOR INTERNATIONAL JOURNALS AND CONFERENCES

- Editorial Advisory Board Member for Transportation Research Part C: Emerging Technologies
- Associate Editor for IEEE Transactions on Intelligent Transportation Systems
- Special Issues Editor (Deputy Editor-in-Chief) for IET Intelligent Transport Systems
- Associate Editor for IET Intelligent Transport Systems
- Editor for Proceedings of the Institution of Civil Engineers Transport
- Review Process Coordinator for TRB Committee on Vehicle-Highway Automation (ACP30)
- Review Editor for Frontiers in Future Transportation
- Principal organiser and Guest Editor of the Special Issue on "Management of Future Motorway and Urban Traffic Systems" within Transportation Research Part C: Emerging Technologies
- Guest Editor of the Special Issue on "Modelling, Learning, and Control of Conventional, Cooperative and Automated Motorway and Urban Traffic Systems" within Transportation Research Part C: Emerging Technologies
- Guest Editor of the Special issue on "Sustainable Development of Intelligent Transportation System and Equipment" within Sustainable Horizons
- Guest Editor of the Special Issue on "Management of Future Motorway and Urban Traffic Systems" within IEEE Transactions on Intelligent Transportation Systems
- Guest Editor of the Special Issue on "Traffic Modelling and Control for Smart, Safe and Green Mobility" within IEEE Open Journal of Intelligent Transportation Systems
- Guest Editor of the Special Issue on "Partially Connected and Automated Traffic Operations in Road Transportation" within Journal of Advanced Transportation
- Guest Editor of the Special issue on "Rethinking transport towards clean and inclusive mobility" within European Transport Research Review
- Guest Editor of the Special Issue on "Communication, Positioning, and Sensing Solutions for Autonomous Vehicles" within Sensors
- Associate Editor for the IEEE International Conferences on Intelligent Transportation Systems (ITSC)
- Associate Editor for the IFAC Symposia on Control in Transportation Systems (CTS)
- Associate Editor for the IEEE Intelligent Vehicles Symposia (IV)
- Associate Editor for the Forums on Integrated and Sustainable Transportation Systems (Forum ISTS)

EVENT ORGANISATION

- Principal organiser of the 12th Symposium of the European Association for Research in Transportation (hEART 2024)
- Principal organiser of the 1st Symposium on Management of Future motorway and urban Traffic Systems (MFTS 2016)
- Technical programme co-chair of the 8th IEEE International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2023)
- Member of the Organising Committee for the Transport Research Arena 2020 (TRA2020)
- Co-organiser of the invited session on "Novel methods for modeling and control of mobility and traffic systems"

- at the 23rd European Control Conference (ECC 2025)
- Organiser of the Breakout session on "Interactive Traffic Management for Highly Automated Vehicles: A Multidisciplinary Challenge" at the 2023 TRB Annual Automated Road Transportation Symposium (ARTS23)
- Co-organiser of the special session titled "Towards sustainable traffic via trajectory optimisation and control strategies for Connected and Automated vehicles" at the 25th IEEE International Conferences on Intelligent Transportation Systems (ITSC 2022)
- Organiser of the Breakout session on "Interactive Traffic Management for Highly Automated Vehicles" at the 2022 TRB Annual Automated Road Transportation Symposium (ARTS22)
- Organiser and moderator of the invited session on "Intelligent Transport Systems" (Nordic Perspective Summit 2020)
- Organiser and Editor of the special Track on "Freeway Traffic Control" at the 15th IFAC Symposium on Control in Transportation Systems (CTS 2018)
- Co-organiser of the open invited track on "Traffic modeling, estimation and control" at the 20th World Congress of the International Federation of Automatic Control (IFAC 2017)
- Co-organiser of the special session on "Recent advances in motorway traffic control" at the 19th IEEE International Conferences on Intelligent Transportation Systems (ITSC 2016)
- Co-organiser of the invited session on "Management and control of motorway traffic systems" at the 14th IFAC Symposium on Control in Transportation Systems (CTS 2016)
- Co-organiser of the special session on "Advances in motorway traffic control" at the 18th IEEE International Conferences on Intelligent Transportation Systems (ITSC 2015)
- Co-organiser of the special session on "Design, modelling, and control of autonomous and cooperative vehicle systems" at the 18th Euro Working Group on Transportation Meeting (EWGT 2015)
- Co-organiser of the invited session on "Optimal control of motorways" at the 20th Conference of the International Federation of Operational Research Societies (IFORS 2014)

REVIEWER FOR INTERNATIONAL JOURNALS

- Transportation Research Part C: Emerging Technologies
- IEEE Transactions on Intelligent Transportation Systems
- Transportation Research Part B: Methodological
- Transportation Research Part A: Policy and Practice
- Transportation Science
- Transportation Research Record
- IET Intelligent Transport Systems
- Automatica
- IEEE Transactions on Control Systems Technology
- Control Engineering Practice
- Annual Reviews in Control
- IEEE Intelligent Transportation Systems Magazine
- IEEE Control Systems Magazine
- International Journal of Robust and Nonlinear Control
- IEEE Systems Journal
- IEEE Control Systems Letters
- Journal of Advanced Transportation
- Transportmetrica A: Transport Science
- Transportmetrica B: Transport Dynamics
- Transport Policy
- Transportation Letters: The International Journal of Transportation Research
- Journal of Traffic and Transportation Engineering
- EURO Journal on Transportation and Logistics
- Mathematical and Computer Modelling of Dynamical Systems
- Journal of Intelligent Transportation Systems: Technology, Planning, and Operations
- PROMET Traffic & Transportation
- European Journal of Transport and Infrastructure Research
- International Journal of Sustainable Transportation
- Physica A

· Advances in Mechanical Engineering

REVIEWER FOR INTERNATIONAL CONFERENCES

- IEEE International Conferences on Intelligent Transportation Systems (ITSC)
- IEEE Intelligent Vehicles Symposia (IV)
- IEEE Conferences on Decision and Control (CDC)
- European Control Conferences (ECC)
- IFAC World Congresses (WS)
- IFAC Symposia on Control in Transportation Systems (CTS)
- Transportation Research Board (TRB) Annual Meetings
- Symposia of the European Association for Research in Transportation (hEART)
- EURO Working Group on Transportation Meetings (EWGT)
- International Symposia on Transportation and Traffic Theory (ISTTT)
- international Conferences on Traffic and Granular Flow (TGF)
- International Conferences on Vehicle Technology and Intelligent Transport Systems (VEHITS)
- European Conference on Information Systems (ECIS)
- IEEE International Conferences on System of Systems (SoSE)
- International Conferences on System Theory, Control and Computing (ICSTCC)

Supervision activities _____

Super vision activities	
AT AALTO UNIVERSITY	
Dr. Murat Bayrak, Postdoctoral researcher Aalto University, Finland	08/2023 – current
Dr. Shaghayegh Vosough, Postdoctoral researcher AALTO UNIVERSITY, FINLAND	03/2021 – current
Dr. Charalampos Sipetas, Postdoctoral researcher AALTO UNIVERSITY, FINLAND	01/2021 – current
Ms. Liva Westerback, PhD student AALTO UNIVERSITY, FINLAND	11/2023 – current
Ms. Heqi Wang, PhD student AALTO UNIVERSITY, FINLAND	03/2023 – current
Mr. Yuanxiang Yang, PhD student AALTO UNIVERSITY, FINLAND	10/2022 – current
Mr. Muhammad Haris, PhD student AALTO UNIVERSITY, FINLAND	09/2022 – current
Mr. Francesco Vitale, PhD student AALTO UNIVERSITY, FINLAND	01/2020 – current
Ms. Oxana Ivanova, MSc student AALTO UNIVERSITY, FINLAND	11/2024 – current
Ms. Julia Latvala, MSc student AALTO UNIVERSITY, FINLAND	11/2024 – current
Ms. Elina Aittoniemi, Part-time PhD student AALTO UNIVERSITY, FINLAND - ALSO AT VTT TECHNICAL RESEARCH CENTRE OF FINLAND	11/2018 – current
Mr. Serio Agriesti, PhD student AALTO UNIVERSITY, FINLAND	03/2020 – 10/2024
Mr. Ze Zhou, PhD student Aalto University, Finland	04/2019 – 10/2024

Mr. Roozbeh Mohammadi, PhD student AALTO UNIVERSITY, FINLAND	02/2018 – 08/2023
Mr. Farzam Tajdari, Part-time PhD student Aalto University, Finland	10/2017 - 01/2023
Dr. lisakki Kosonen, Senior researcher Aalto University, Finland	04/2019 – 10/2024
Dr. Ramin Niroumand, Postdoctoral researcher AALTO UNIVERSITY, FINLAND	08/2023 – 08/2024
Dr. Weiming Zhao, Postdoctoral researcher Aalto University, Finland	11/2019 - 09/2022
Dr. Cafer Avci, Postdoctoral researcher Aalto University, Finland	06/2019 – 06/2022
Dr. Yu Han, Postdoctoral researcher Aalto University, Finland	09/2017 – 10/2017
Mr. Jingfeng Ma, PhD student Southeast University, China	12/2022 – 12/2023
Ms. Haizhen Li, PhD student Chang'an University, China	03/2021 - 03/2022
Mr. Mohammad Karimi, PhD student Concordia University, Canada - with Prof. Ciprian Alecsandru	08/2017 – 06/2020
Mr. Chris Yung, MSc student AALTO UNIVERSITY, FINLAND	06/2024 – 11/2024
Mr. Héctor Del Pino Verona, MSc student Aalto University, Finland - also at Universitat Politècnica de València, Spain	09/2019 – 01/2020
Mr. Germán R. Pardo González, Summer intern Aalto University, Finland - also at London School of Economics, UK	06/2024 – 08/2024
Ms. Olena Vol, Summer intern Aalto University, Finland - also at Université Paris 1 Panthéon-Sorbonne, France	06/2022 – 08/2022
Mr. Petr Anashin, Summer intern Aalto University, Finland - also at University of Tartu, Estonia	06/2022 – 08/2022
Mr. Petr Hajduk, MSc student AALTO UNIVERSITY, FINLAND - ALSO AT VTT TECHNICAL RESEARCH CENTRE OF FINLAND	01/2018 – 12/2018
AT TECHNICAL UNIVERSITY OF CRETE	
Ms. Maria Kontorinaki, PhD student Technical University of Crete, Greece - with Prof. Markos Papageorgiou	09/2017 – 09/2017
Ms. Georgia R. Iordanidou, PhD student Technical University of Crete, Greece - with Prof. Ioannis Papamichail	06/2013 – 03/2017
Ms. Sofia Papadopoulou, MsC student Technical University of Crete, Greece - with Prof. Markos Papageorgiou	01/2016 - 03/2017
Ms. Georgia Perraki, MsC student Technical University of Crete, Greece - with Prof. Ioannis Papamichail	03/2015 – 11/2016
Mr. Markos Fountoulakis, MsC student Technical University of Crete, Greece - with Prof. Markos Papageorgiou	03/2015 - 07/2016

Ms. Cecilia Pasquale, PhD student

05/2014 - 07/2014

University of Genova, Italy - with Prof. Simona Sacone

AT UNIVERSITY OF GENOVA

Mr. Haitam Laarabi, PhD student

07/2012 – 04/2013

University of Genova, Italy - with Prof. Roberto Sacile

Invited presentations _____

Network-wide motorway traffic control in presence of Vehicle Automation and **Communication Systems**

26/10/2015

University of California Los Angeles, USA

IPAM Workshop on Traffic Control, Part of the long program "New directions in mathematical approaches for traffic flow management"

Traffic management in the era of Vehicle Automation and Communications **Systems and Smart Infrastructure**

09/12/2015

University of Glasgow, UK

Invited lecture

Multilane traffic control in the presence of automated and connected vehicles

01/06/2017

UNIVERSITY OF LUXEMBOURG, LUXEMBOURG

Workshop on Smart Mobility

Integrated control of motorway bottlenecks via flow metering and lane assignment

12/09/2018

TECHNICAL UNIVERSITY OF CRETE, GREECE

Invited seminar

Traffic management for CAVs: Influence on traffic characteristics and control strategies

28/05/2019

BEIJING UNIVERSITY OF TECHNOLOGY, CHINA

Invited seminar

User-based signal timing in a connected vehicle environment

31/05/2019

ZHEJIANG UNIVERSITY, CHINA

Invited seminar

Feedback-based integrated lane-based control with Connected and Automated **Vehicles**

06/11/2019

University of Canterbury, New Zealand

Invited seminar

Data-driven traffic flow estimation at intersections in a partially connected environment

20/09/2020

IEEE INTELLIGENT TRANSPORTATION SYSTEM CONFERENCE 2020, GREECE Workshop on Traffic Management for Future Mobility: CAVs in a Mixed Traffic Environment

Traffic Management in the era of Connectivity and Automation

08/10/2020

TU Dresden, Germany

Invited lecture

Online set-point estimation for motorway traffic control with connected and automated vehicles

26/10/2022

University of Cyprus, Cyprus

Invited seminar

Integration of large-scale activity-based and traffic assignment models: Calibration and equilibrium

18/10/2023

QUEENSLAND UNIVERSITY OF TECHNOLOGY, AUSTRALIA

Invited seminar

Connected and Automated Driving: Obstacle avoidance and cooperative decentralised routing	23/10/2023
University of Queensland, Australia Invited seminar	
Connected and Automated Driving: Decentralised signal-free intersection management and cooperative routing UNIVERSITY OF SYDNEY, AUSTRALIA Invited seminar	03/11/2023
Dynamic ridesharing: Considering traffic congestion effects and fair pricing in matching and routing UNIVERSITY OF NEW SOUTH WALES, AUSTRALIA Invited seminar	13/11/2023
Matching and routing in Dynamic Ridesharing: Addressing traffic congestion and	21/03/2024
fair pricing TU Delft, the Netherlands Invited webinar	
Invited external examiner	
PhD degree examination University of Tartu, Estonia	11/2024
PhD degree examination Technion – Israel Institute of Technology, Israel	05/2024
PhD degree examination Trinity College Dublin, Ireland	05/2024
PhD degree examination Technical University of Crete, Greece	12/2022
PhD entry examination Swiss Federal Institute of Technology in Zurich (ETH), Switzerland	12/2020
PhD degree examination Technical University of Crete, Greece	07/2019
PhD degree examination Technical University of Crete, Greece	09/2017
PhD degree examination Technical University of Crete, Greece	03/2017
2 MSc degree theses École polytechnique fédérale de Lausanne (EPFL), Switzerland	02/2017

Research evaluation

- Evaluator of research proposals for California METRANS Transportation Center
- Evaluator of research proposals for the Netherlands Organisation for Scientific Research (NWO), domain Applied and Engineering Sciences
- Evaluator of research proposals for the Luxembourg national research fund (FNR)
- Evaluator of research proposals for the Research Grants Council (RGC) of Hong Kong
- Evaluator of research proposals for the Swiss National Science Foundation (SNSF)
- Evaluator of grant proposals for the National Science Center (NCN) of Poland
- External Expert in the evaluation of COST Action proposals, for the European Commission

Recognitions and awards

- The paper by Roncoli, C., Papageorgiou, M., Papamichail, M., titled "Traffic flow optimisation in presence of vehicle automation and communication systems Part II: Optimal control for multi-lane motorways", was listed among the "Most Cited Transportation Research Part C: Emerging Technologies Articles" during 2015-2018.
- The paper by Spiliopoulou, A., Perraki, G., Papageorgiou, M., Roncoli, C., titled "Exploitation of ACC systems towards improved traffic flow efficiency on motorways", which was presented by A. Spiliopoulou at the 5th IEEE International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2017), Naples, Italy, June 26-28, 2017, received the "Best Paper Presented by a Woman award".
- The paper by Bekiaris-Liberis, N., Roncoli, C., Papageorgiou, M., titled "Highway Traffic State Estimation With Mixed Connected and Conventional Vehicles", received the 2019 "George N. Saridis Best Transactions Paper Award" for Outstanding Research.
- The paper by Zhou, Z., Roncoli, C., titled "A fairness-aware joint pricing and matching framework for dynamic ridesharing", which was presented by Z. Zhou at the 8th IEEE International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2023), Nice, France, June 14-16, 2023, received the "Best Paper Award".
- The paper by Vitale, F., Roncoli, C., titled "Real-time congestion-aware distributed cooperative rerouting of connected and automated vehicles in urban networks", which was presented by F. Vitale at the TRB 103rd Annual Meeting, Washington, DC, USA, January 7-11, 2024, received the "Best Young First Author Award" for the Operations Section.

Personal information

Nationality: Italian

• Date of birth: 30/10/1984

• Languages: Italian (mother tongue), English (fluently), French (basic), Greek (basic)

Publication list

ARTICLES IN INTERNATIONAL JOURNALS

- 1. Roncoli, C., Bersani, C., and Sacile, R. A risk-based system of systems approach to control the transport flows of dangerous goods by road. *IEEE Systems Journal*, 7(4):561–570, 2013. DOI: 10.1109/JSYST.2012.2212652.
- 2. Iordanidou, G.-R., Roncoli, C., Papamichail, I., and Papageorgiou, M. Feedback-based mainstream traffic flow control for multiple bottlenecks on motorways. *IEEE Transactions on Intelligent Transportation Systems*, 16 (2):1–12, 2014. DOI: 10.1109/TITS.2014.2331985.
- 3. Pasquale, C., Papamichail, I., Roncoli, C., Sacone, S., Siri, S., and Papageorgiou, M. Two-class freeway traffic regulation to reduce congestion and emissions via nonlinear optimal control. *Transportation Research Part C: Emerging Technologies*, 55(1):85–99, 2015. DOI: 10.1016/j.trc.2015.01.013.
- 4. Roncoli, C., Papageorgiou, M., and Papamichail, I. Traffic flow optimisation in presence of vehicle automation and communication systems Part I: A first-order multi-lane model for motorway traffic. *Transportation Research Part C: Emerging Technologies*, 57:241–259, 2015. DOI: 10.1016/j.trc.2015.06.014.
- 5. Roncoli, C., Papageorgiou, M., and Papamichail, I. Traffic flow optimisation in presence of vehicle automation and communication systems Part II: Optimal control for multi-lane motorways. *Transportation Research Part C: Emerging Technologies*, 57:260–275, 2015. DOI: 10.1016/j.trc.2015.05.011.
- 6. Roncoli, C., Papamichail, I., and Papageorgiou, M. Hierarchical model predictive control for multi-lane motorways in presence of Vehicle Automation and Communication Systems. *Transportation Research Part C: Emerging Technologies*, 62:117–132, 2016. DOI: 10.1016/j.trc.2015.11.008.
- 7. Bekiaris-Liberis, N., Roncoli, C., and Papageorgiou, M. Highway traffic state estimation with mixed connected and conventional vehicles. *IEEE Transactions on Intelligent Transportation Systems*, 17(12):3484–3497, 2016. DOI: 10.1109/TITS.2016.2552639.
- 8. Roncoli, C., Bekiaris-Liberis, N., and Papageorgiou, M. Use of speed measurements for highway traffic state estimation: Case studies on NGSIM data and highway A20, Netherlands. *Transportation Research Record: Journal of the Transportation Research Board*, 2559(1):90–100, 2016. DOI: 10.3141/2559-11.
- 9. Han, Y., Hegyi, A., Yuan, Y., Hoogendoorn, S., Papageorgiou, M., and Roncoli, C. Resolving freeway jam waves by discrete first-order model-based predictive control of variable speed limits. *Transportation Research Part C: Emerging Technologies*, 77:405–420, 2017. DOI: 10.1016/j.trc.2017.02.009.
- 10. Fountoulakis, M., Bekiaris-Liberis, N., Roncoli, C., Papamichail, I., and Papageorgiou, M. Highway traffic state estimation with mixed connected and conventional vehicles: Microscopic simulation-based testing. *Transportation Research Part C: Emerging Technologies*, 78:13–33, 2017. DOI: 10.1016/j.trc.2017.02.015.
- 11. Roncoli, C., Bekiaris-liberis, N., and Papageorgiou, M. Lane-changing feedback control for efficient lane assignment at motorway bottlenecks. *Transportation Research Record: Journal of the Transportation Research Board*, 2625:20–31, 2017. DOI: 10.3141/2625-03.
- 12. Iordanidou, G.-R., Papamichail, I., Roncoli, C., and Papageorgiou, M. Feedback-based integrated motorway traffic flow control with delay balancing. *IEEE Transactions on Intelligent Transportation Systems*, 18(9): 2319–2329, 2017. DOI: 10.1109/TITS.2016.2636302.
- 13. Bekiaris-Liberis, N., Roncoli, C., and Papageorgiou, M. Highway traffic state estimation per lane in the presence of connected vehicles. *Transportation Research Part B: Methodological*, 106:1–28, 2017. DOI: 10.1016/j.trb.2017.11.001.
- 14. Kontorinaki, M., Spiliopoulou, A., Roncoli, C., and Papageorgiou, M. First-order traffic flow models incorporating capacity drop: Overview and real-data validation. *Transportation Research Part B: Methodological*, 106: 52–75, 2017. DOI: 10.1016/j.trb.2017.10.014.
- 15. Papadopoulou, S., Roncoli, C., Bekiaris-Liberis, N., Papamichail, I., and Papageorgiou, M. Microscopic simulation-based validation of a per-lane traffic state estimation scheme for highways with

- connected vehicles. *Transportation Research Part C: Emerging Technologies*, 86:441–452, 2018. DOI: 10.1016/j.trc.2017.11.012.
- 16. Perraki, G., Roncoli, C., Papamichail, I., and Papageorgiou, M. Evaluation of a model predictive control framework for motorway traffic involving conventional and automated vehicles. *Transportation Research Part C: Emerging Technologies*, 92:456–471, 2018. DOI: 10.1016/j.trc.2018.05.002.
- 17. Roncoli, C., Bekiaris-Liberis, N., Carlson, R. C., and Geroliminis, N. Special issue on "Management of Future Motorway and Urban Traffic Systems". *Transportation Research Part C: Emerging Technologies*, 96:1–2, 2018. DOI: 10.1016/j.trc.2018.09.005.
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OTHER PEER-REVIEWED CONFERENCE PRESENTATIONS (WITHOUT PUBLISHED PROCEEDINGS)

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- 2. Roncoli, C., Papageorgiou, M., and Papamichail, I. Motorway flow optimisation in presence of Vehicle Automation and Communication Systems. In 1st International Conference on Engineering and Applied Science Optimization (OPT-i), 519–529, 2014.
- 3. Roncoli, C., Papageorgiou, M., and Papamichail, I. An optimisation-oriented first-order multi-lane model for motorway traffic. In *TRB 94th Annual Meeting*, 15–2905, 2015.
- 4. Kontorinaki, M., Spiliopoulou, A., Roncoli, C., and Papageorgiou, M. Capacity drop in first-order traffic flow models: Overview and real-data validation. In *TRB 95th Annual Meeting*, 16–3541, 2016.
- 5. Roncoli, C., Bekiaris-Liberis, N., and Papageorgiou, M. Motorway traffic state estimation using speed measurements: Case studies on NGSIM data and motorway A20 in the Netherlands. In *TRB 95th Annual Meeting*, 16–2071, 2016.
- 6. Roncoli, C., Bekiaris-Liberis, N., and Papageorgiou, M. Optimal lane-changing control at motorway bottlenecks. In 1st Symposium on Management of Future Motorway and Urban Traffic Systems (MFTS 2016), 2016.
- 7. Iordanidou, G.-R., Papamichail, I., Roncoli, C., and Papageorgiou, M. Feedback-based integrated motorway traffic flow control. In 1st Symposium on Management of Future Motorway and Urban Traffic Systems (MFTS 2016), 2016.
- 8. Roncoli, C., Bekiaris-Liberis, N., and Papageorgiou, M. Lane-changing feedback control for efficient lane assignment at motorway bottlenecks. In *TRB 96th Annual Meeting*, 17–04395, 2017.
- 9. Papamichail, I., Iordanidou, G., Roncoli, C., and Papageorgiou, M. Integrated motorway traffic flow control. In 8th International Congress on Transportation Research (ICTR 2017), 519–529, 2017.
- 10. Roncoli, C., Tajdari, F., Bekiaris-Liberis, N., and Papageorgiou, M. Optimal flow metering and lane-changing control at motorway bottlenecks. In *2nd Symposium on Management of Future Motorway and Urban Traffic Systems (MFTS 2018)*, 2018.
- 11. Roncoli, C., Tajdari, F., Bekiaris-Liberis, N., and Papageorgiou, M. Integrated control of motorway bottlenecks via flow metering and lane assignment. In *hEART 2018: 7th Symposium of the European Association for Research in Transportation*, 2018.
- 12. Roncoli, C. Optimal traffic control via time-gap regulation. In hEART 2019: 8th Symposium of the European Association for Research in Transportation, 2019.

- 13. Karimi, M., Roncoli, C., Alecsandru, C., and Papageorgiou, M. Merging in mixed traffic of Connected and Automated Vehicles and conventional vehicles: A Model Predictive Control framework. In *TRB* 99th Annual Meeting, 20–03885, 2020.
- 14. Roncoli, C. Optimal traffic flow control via time-gap regulation. In TRB 99th Annual Meeting, 20–02759, 2020.
- 15. Hajduk, P., Roncoli, C., and Pihlatie, M. Data-based synthetic population generator for activity-based transport models. In *TRA2020 The 8th Transport Research Arena*, 2020.
- 16. Mohammadi, R., , Roncoli, C., and Mladenovic, M. N. Data-driven estimation of vehicles approaching an intersection in a partially connected environment. In 4th Symposium on Management of Future Motorway and Urban Traffic Systems (MFTS 2020), 2020.
- 17. Avci, C., Mattas, K., Albano, G., Roncoli, C., and Ciuffo, B. Dynamic programming-based trajectory optimisation for Connected Adaptive Cruise Control-equipped vehicles in mixed traffic. In *4th Symposium on Management of Future Motorway and Urban Traffic Systems (MFTS 2020)*, 2020.
- 18. Mohammadi, R., Roncoli, C., and Mladenovic, M. Maximizing user throughput at signalized intersections in a Connected Vehicle environment. In *TRB 100th Annual Meeting*, TRBAM–21–00439, 2021.
- 19. Sipetas, C., Roncoli, C., and Mladenović, M. Optimized Operation of Flexible Transit Services with Mixed Fleets of Automated and Human-Driven Vehicles. In *TRB 101st Annual Meeting*, TRBAM–22–00753, 2022.
- 20. Mohammadi, R. and Roncoli, C. Vehicle Estimation for Signalised Links in a Partially Connected Vehicle Environment: A Data-driven Approach. In *TRB 101st Annual Meeting*, TRBAM–22–00360, 2022.
- 21. Vitale, F. and Roncoli, C. Obstacle Avoidance via Nonlinear MPC for Automated Vehicles for Urban and Highway scenarios. In *TRB 101st Annual Meeting*, TRBAM–22–00374, 2022.
- 22. Zhou, Z. and Roncoli, C. A decentralized framework for dynamic ridesharing considering traffic congestion. In *TRB 101st Annual Meeting*, TRBAM–22–01969, 2022.
- 23. Zhou, Q., Li, J., Wang, Y., Roncoli, C., Zhang, L., Lehe, L., and Hu, S. High-resolution queue profile estimation at signalized intersections based on Extended Kalman Filter. In *TRB 101st Annual Meeting*, TRBAM–22–02414, 2022.
- 24. Zhao, W. and Roncoli, C. A constrained spectral clustering method for Lane identification using trajectory data. In *TRB 101st Annual Meeting*, TRBAM–22–03865, 2022.
- 25. Vosough, S. and Roncoli, C. Investigating drivers' behaviour and time sacrifice under social routing advices. In *hEART 2022: 10th Symposium of the European Association for Research in Transportation*, 2022.
- 26. Sipetas, C. and Roncoli, C. Strategic integration of flexible services of shared automated vehicles with conventional fixed public transit. In *hEART 2022: 10th Symposium of the European Association for Research in Transportation*, 2022.
- 27. Espinosa Mireles de Villafranca, A. and Roncoli, C. Performance of synthetic road networks with dedicated streets for altruists. In *hEART 2022: 10th Symposium of the European Association for Research in Transportation*, 2022.
- 28. Vitale, F. and Roncoli, C. Distributed ordering and optimization for intersection management with connected and automated vehicles. In 4th Symposium on Management of Future Motorway and Urban Traffic Systems (MFTS 2022), 2022.
- 29. Vosough, S. and Roncoli, C. Drivers' social routing behavior: Evidence from stated and revealed preferences experiments in two European cities. In *TRB 102nd Annual Meeting*, TRBAM–23–01538, 2023.
- 30. Agriesti, S. A. M., Kuzmanovski, V., Hollmén, J., Roncoli, C., and Nahmias-Biran, B.-h. Calibration of large scale behavioral transport models via Bayesian optimization. In *TRB 102nd Annual Meeting*, TRBAM–23–04904, 2023.

- 31. Mohammadi, R., Vosough, S., and Roncoli, C. User-based transit signal priority in a connected vehicle environment accounting for schedule delays and environmental impacts. In *TRB 102nd Annual Meeting*, TRBAM–23–03456, 2023.
- 32. Roncoli, C., Chandakas, E., and Kaparias, I. A Kalman filter based estimation method for on-board public transport passenger comfort using incomplete Automatic Passenger Counting data. In *TRB 102nd Annual Meeting*, TRBAM–23–00082, 2023.
- 33. Agriesti, S. A. M., Anashin, P., Roncoli, C., and Nahmias-Biran, B.-h. On integrating large-scale activity-based and dynamic traffic assignment models. In *International Symposium on Transportation Data & Modelling (ISTDM2023)*, 2023.
- 34. Khavarian, K., Vosough, S., and Roncoli, C. How do electric bikes affect the route choice of cyclists? A case study of Greater Helsinki. In *hEART 2023: 11th Symposium of the European Association for Research in Transportation*, 2023.
- 35. Ma, J., Roncoli, C., Ren, G., Cao, Q., Deng, Y., and Du, J. Vehicle trajectory reconstruction based on Hidden Markov Model and Piecewise Cubic Hermite Interpolation Polynomial. In *TRB 103rd Annual Meeting*, TRBAM–24–04768, 2024.
- 36. Vitale, F. and Roncoli, C. Real-time congestion-aware distributed cooperative rerouting of connected and automated vehicles in urban networks. In *TRB 103rd Annual Meeting*, TRBAM–24–03484, 2024.
- 37. Tarkkala, K., Vosough, S., West, J., and Roncoli, C. Incorporating cyclists' route choice models into travel demand modelling: A case study in Greater Helsinki. In *TRB 103rd Annual Meeting*, TRBAM–24–00368, 2024.
- 38. Zhou, Z., Roncoli, C., and Sipetas, C. Joint optimisation of pricing and matching for mobility-on-demand ridesharing systems considering fairness and user choices. In *TRB 103rd Annual Meeting*, TRBAM–24–00375, 2024.
- 39. Khavarian, K., Vosough, S., and Roncoli, C. Bridging the expectation vs reality gap on route choice behavior of e-bike users: Evidence from the Greater Helsinki Region in Finland. In *TRB 103rd Annual Meeting*, TRBAM–24–03308, 2024.
- 40. Sipetas, C., Roncoli, C., Chandakas, E., and Kaparias, I. Real-time on-board crowding estimation in public transport networks with multiple lines using non-exhaustive Automatic Passenger Counting data. In *TRB* 103rd Annual Meeting, TRBAM–24–03363, 2024.
- 41. Vitale, F. and Roncoli, C. Distributed trajectory optimization of connected and automated vehicles at signal-free intersections. In *TRB 103rd Annual Meeting*, TRBAM–24–00220, 2024.
- 42. Niroumand, R., Vosough, S., Rinaldi, M., Connors, R., and Roncoli, C. Beyond links: The power of path incentives in alleviating congestion and emissions in urban networks. In *hEART 2024: 12th Symposium of the European Association for Research in Transportation*, 2024.
- 43. Zhou, Z., Agriesti, S. A. M., Roncoli, C., Yfantis, L., Nahmias-Biran, B.-h., and Casas, J. Assessing the operational performance of ridesharing-enabled shared autonomous vehicles fleets. In *hEART 2024: 12th Symposium of the European Association for Research in Transportation*, 2024.
- 44. Agriesti, S. A. M., Roncoli, C., and Nahmias-Biran, B.-h. An equilibrium-seeking search algorithm for modeling the integration of supply and demand. In *hEART 2024: 12th Symposium of the European Association for Research in Transportation*, 2024.
- 45. Agriesti, S. A. M., Roncoli, C., and Nahmias-Biran, B.-h. Activity-based modeling to forecast and assess shifts in demand due to Automated Driving. In 17th International Conference on Travel Behavior Research (IATBR), 2024.
- 46. Sipetas, C., Roncoli, C., Chandakas, E., and Kaparias, I. Estimating on-board crowding in complex public transport networks from incomplete automatic passenger counts. In *TRC-30: Conference in Emerging Technologies in Transportation Systems*, 2024.

- 47. Niroumand, R., Kafashan, F., Hajibabai, L., Hajbabaie, A., and Roncoli, C. Efficient real-time CAV trajectory optimization at signal-free intersections using a greedy-based heuristic approach. In *TRC-30: Conference in Emerging Technologies in Transportation Systems*, 2024.
- 48. Niroumand, R., Vosough, S., Roncoli, C., Rinaldi, M., and Connors, R. Balancing congestion and emissions in urban networks via path-based incentives. In *5th Symposium on Management of Future Motorway and Urban Traffic Systems (MFTS 2024*), 2024.
- 49. Haris, M., Roncoli, C., and Niroumand, R. Optimization-based urban network traffic management with mixed autonomy incorporating dynamic saturation rates. In *5th Symposium on Management of Future Motorway and Urban Traffic Systems (MFTS 2024*), 2024.
- 50. Zhao, W., Roncoli, C., and Yildirimoglu, M. Bounded-METANET: A new bounded discrete-time second-order macroscopic traffic flow model. In *TRB 104th Annual Meeting*, TRBAM–25–06031, 2025.
- 51. Niroumand, R., Kafashan, F., Hajibabai, L., Hajbabaie, A., and Roncoli, C. A real-time greedy heuristic for CAV trajectory optimization through signal free intersections. In *TRB 104th Annual Meeting*, TRBAM–25–04146, 2025.
- 52. Agriesti, S. A. M., Roncoli, C., and Nahmias-Biran, B.-h. A simulation-based framework for quantifying potential AMoD demand loss due to operational constraints in mobility services. In *TRB 104th Annual Meeting*, TRBAM–25–03485, 2025.
- 53. Yang, Y., Liu, Y., and Roncoli, C. A macro-micro dual-layer approach for congestion mitigation in mixed traffic. In *TRB 104th Annual Meeting*, TRBAM–25–06176, 2025.
- 54. Niroumand, R., Vosough, S., Roncoli, C., Rinaldi, M., and Connors, R. Evaluating link and path incentives: Which is the most effective strategy for mitigating traffic congestion? In *TRB 104th Annual Meeting*, TRBAM–25–01914, 2025.
- 55. Vosough, S., Vol, O., and Roncoli, C. Social routing recommendations delivered via navigation apps: Why do drivers deviate from their stated intentions? In *TRB 104th Annual Meeting*, TRBAM–25–03538, 2025.
- 56. Zhu, B., Hu, S., Chen, X. M., Roncoli, C., and Lee, D.-H. Impact of road networks and urban functions on CO2 emissions from passenger cars: An empirical case study from Hangzhou. In *TRB 104th Annual Meeting*, TRBAM–25–00781, 2025.
- 57. Wang, H. and Roncoli, C. Predicting short-term passenger loading across multiple transit lines using relational multi-graph convolutional recurrent networks. Submitted.
- 58. Pardo-González, G., Vosough, S., Papadaki, K., and Roncoli, C. Dynamic incentives for efficient traffic management: A reinforcement learning approach. Submitted.
- 59. Lee, E., Agriesti, S., Vosough, S., Sipetas, C., Roncoli, C., Rinaldi, M., and Leclerq, L. Defining seamless multi-modal transportation through four key principles: A systematic approach. Submitted.